SWP Weekly Water Quality Summary

September 15 to 21, 2010

Electrical Conductivity (EC): EC concentrations increased at Harvey O. Banks Pumping Plant (HBP), Check 29, Check 41 and Barker Slough. All EC concentrations were below the Article 19 Monthly Average Objective of 733 µS/cm (440 mg/L). Concentrations ranged from 232 to 629 µS/cm (139 to 377 mg/L). The lowest concentration of 240 µS/cm (144 mg/L) occurred at Barker Slough, and the highest concentration of 629 µS/cm (377 mg/L) occurred at HBP. EC increased at HBP from 574 µS/cm to 626 µS/cm (344 to 377 mg/L).

Bromide*: Concentrations exceeded the California Bay-Delta Authority Objective of 0.05 mg/L at all the stations throughout the week. Barker Slough had the lowest concentration of 0.07 mg/L, while the highest concentration of 0.35 mg/L occurred at HBP.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: Turbidity levels decreased at HBP, Check 29 and Vallecitos, but increased at Check 41 and Barker Slough and ranged from 6.7 NTU to 45.0 NTU. At the end of the week, the lowest level of 6.7 NTU occurred at HBP, while the highest level of 45.0 NTU occurred at Barker Slough. Turbidity levels at HBP decreased from 7.8 NTU to 6.7 NTU.

Dissolved Organic Carbon (DOC): Concentrations increased from 2.0 mg/L to 2.1 mg/L at HBP and from 2.6 to 3.5 mg/L at Edmonston Pumping Plant. Due to malfunctioning instrument at Check 13, DOC data were unavailable this week.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP ranged from ND to 13 µg/L at HBP, Del Valle Check 7, O'Neill Outlet, Pacheco Pumping Plant Outlet, Castaic Lake and Silver Wood Lake, as of September 8 to 14, 2010.

Groundwater pump-ins to the California Aqueduct totaled 2,052 AF. The breakdown of the total volume was:

- Arvin Edison = 1 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 6 AF
- Semitropic (2&3) Water Storage District = 2,045 AF

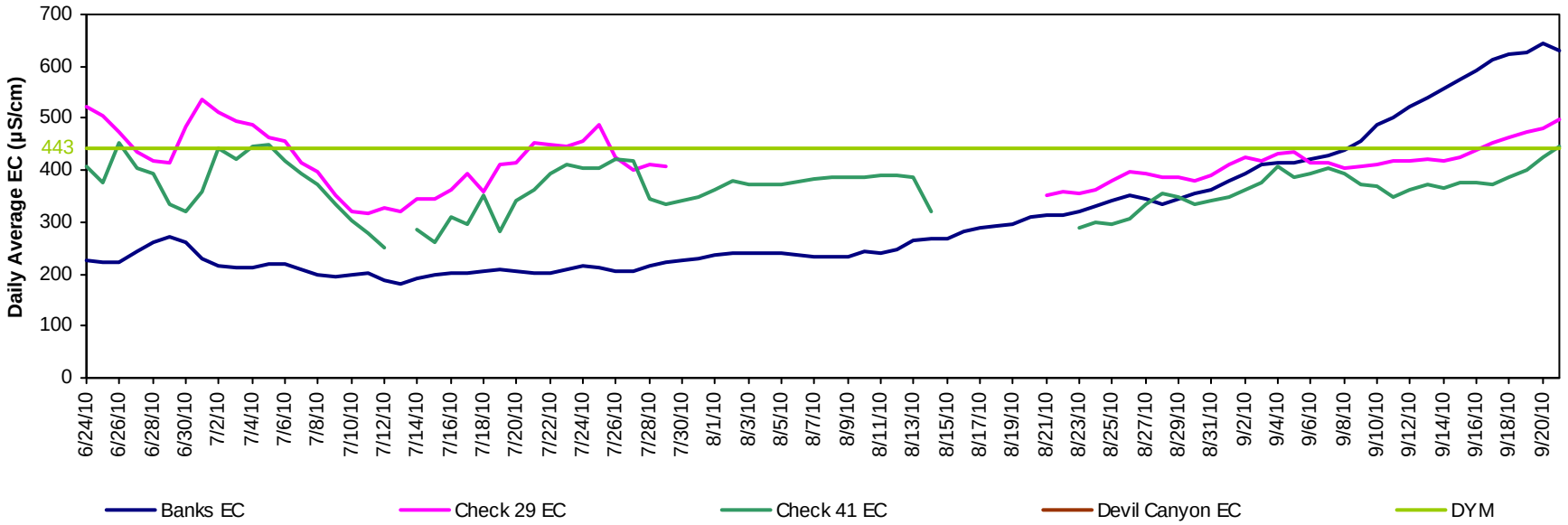
During the week, no data were available for Devil Canyon due to malfunctioning instruments.

The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). You can direct your comments, questions and suggestions to Cindy Garcia @ 916-653-7213 or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit:

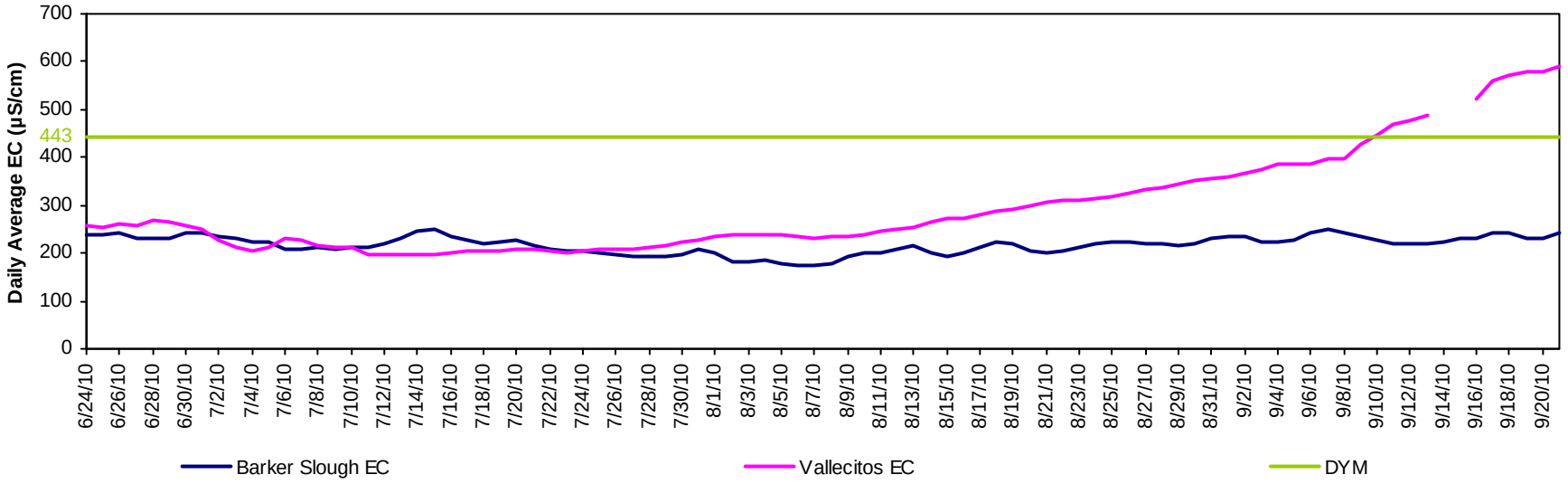
http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

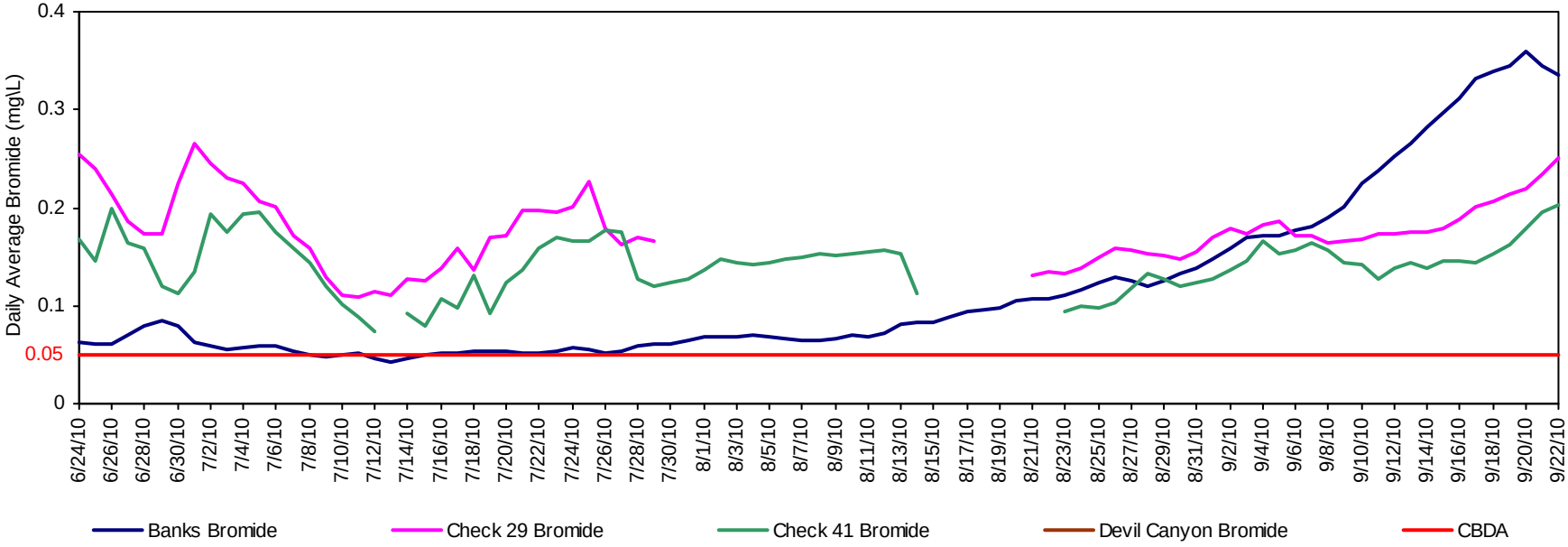
California Aqueduct - Electrical Conductivity



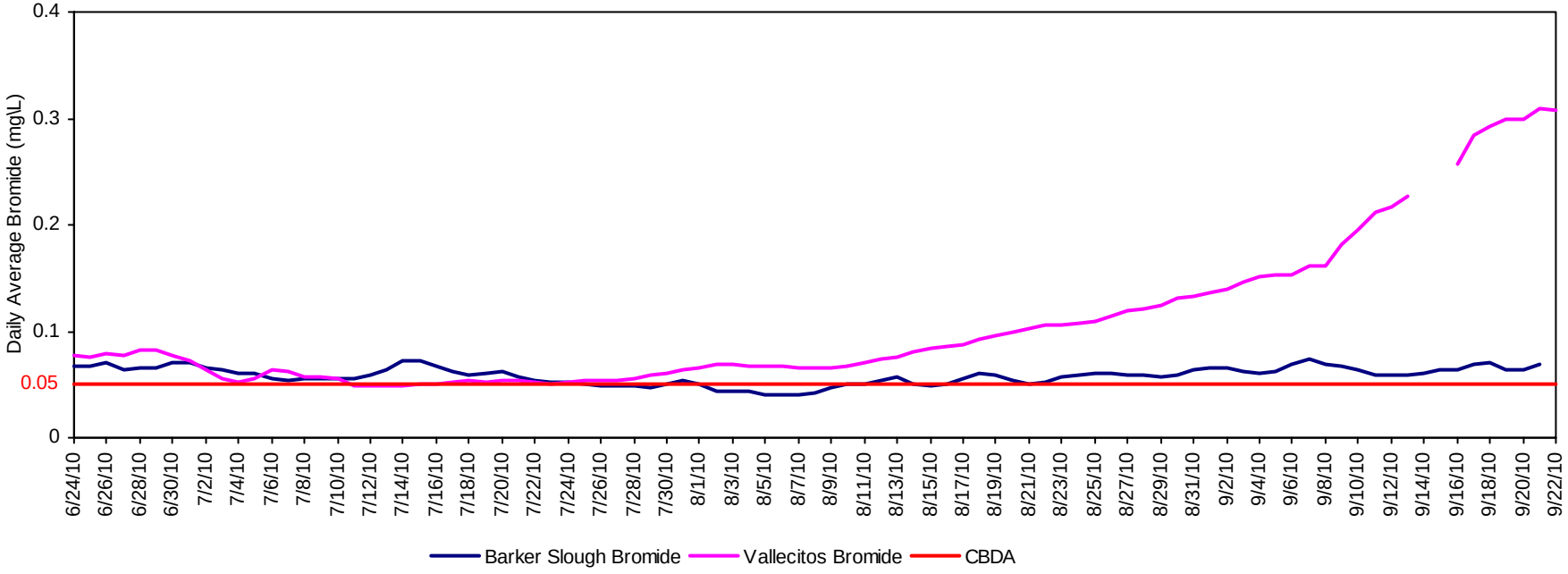
North and South Bay Aqueduct - Electrical Conductivity



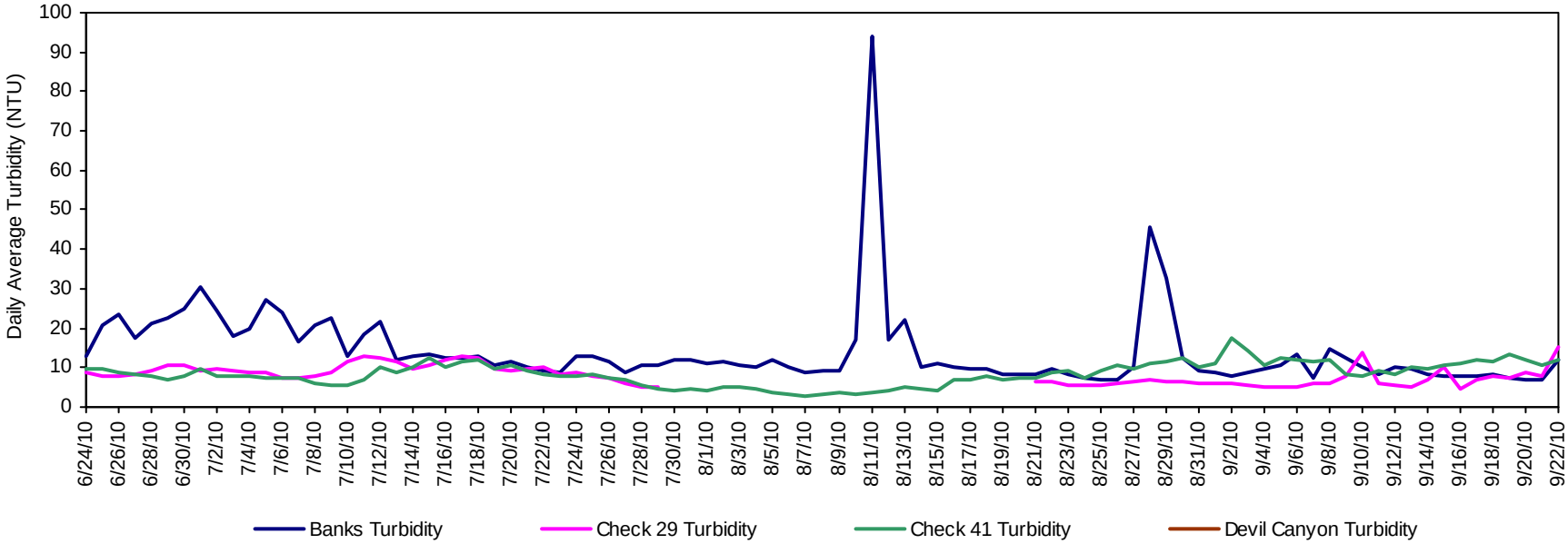
California Aqueduct - Calculated Bromide



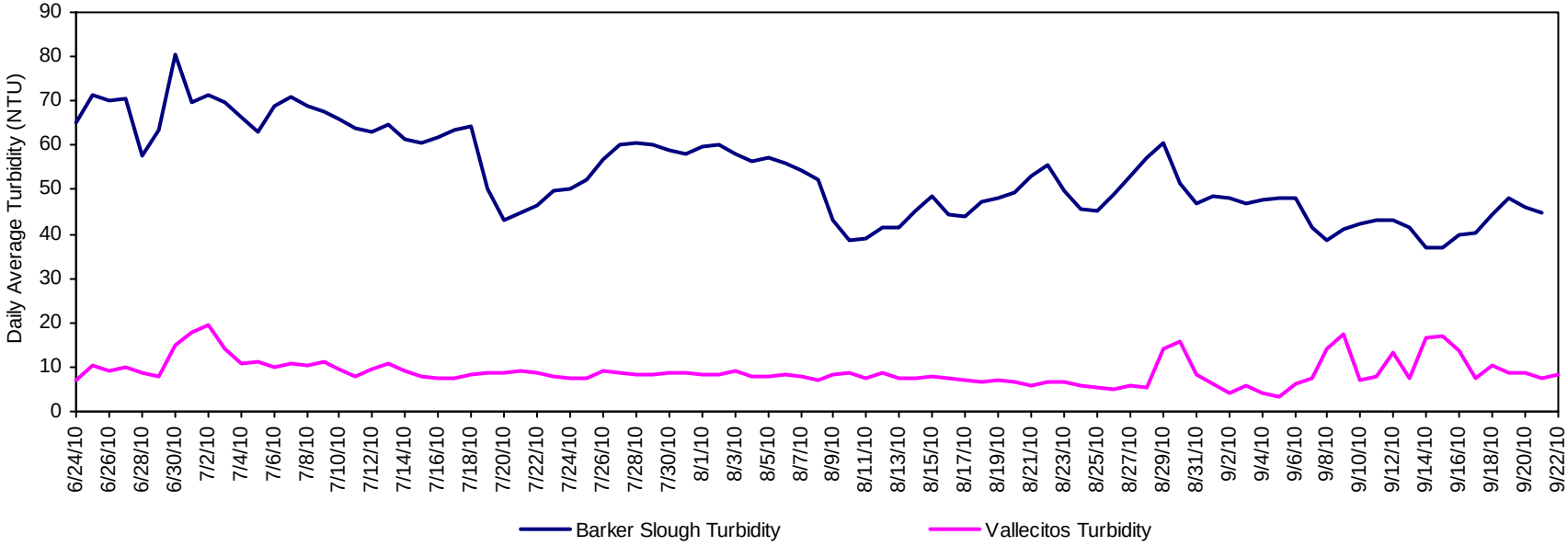
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct
Calculated Dissolved Organic Carbon